

**Size:** 724 acres  
**Mission:** Receive, store, and distribute supplies, materials, and equipment  
**HRS Score:** 42.24; placed on NPL in July 1987  
**IAG Status:** IAG signed in March 1989  
**Contaminants:** VOCs, heavy metals, petroleum/oil/lubricants, and pesticides  
**Media Affected:** Groundwater and soil  
**Funding to Date:** \$44.6 million  
**Estimated Cost to Completion (Completion Year):** \$33.8 million (FY2015)  
**Final Remedy in Place or Response Complete Date for All Sites:** FY2000



Lathrop, California

## Restoration Background

This facility began operation in 1941 as a supply and maintenance center. Activities conducted at the installation include overhauls, repairs, painting, paint stripping, metal finishing, and degreasing of aircraft and heavy equipment. Investigation and assessment identified 150 sites, consisting of 8 groundwater plumes and 142 contaminated or potentially contaminated soil or building sites.

A Remedial Investigation and Feasibility Study (RI/FS) for groundwater was completed in FY91, and a Record of Decision (ROD) was signed in FY93. Per ROD requirements, the two interim groundwater extraction and air-stripping systems were upgraded to further treat and control the migration of trichloroethene (TCE) plumes. A third groundwater extraction and treatment system using air stripping and carbon adsorption went into operation in June 1995 to capture the depot's central area plume. The system includes 46 extraction wells and 3 treatment plants, with a treatment capacity of more than 1,300 gallons per day.

Between FY85 and FY95, 67 underground storage tanks (USTs) and sumps underwent removal and corrective actions and 57 sites were closed. Approximately 10,000 cubic yards of contaminated soil was removed and disposed of during this period.

A Removal Action for pesticide-contaminated soil at the former pesticide mixing area was accomplished in 1995-1996. Approximately 500 cubic yards of pesticide-contaminated soil was removed.

An installation wide RI/FS and a risk assessment were completed in FY95, and the Proposed Plan was prepared and provided to the public for comment. The final ROD for Operable Unit (OU) 2, the sitewide remedy, was signed in February 1996.

During FY97, the installation completed a Removal Action for lead- and

chromium-contaminated soil at Sharpe's former industrial waste treatment plant pond and submitted the final closure report. Long-term monitoring and operations and maintenance at the sitewide groundwater treatment systems continued. In addition, the design of the lead/chromium Soil Removal Action stipulated in the OU2 ROD was completed. Four USTs were removed and two were closed. Two other sites required further action. A study was initiated to determine the best in situ technologies for remediating UST sites where soil contamination had migrated beneath a building or other structure. The installation completed design of the in situ vapor extraction remedy for the TCE-contaminated soil.

The installation continued its efforts to raise interest within the surrounding community through a technical review committee. It also distributed fact sheets describing remediation efforts.

## FY98 Restoration Progress

The pilot in situ bioventing project was completed at UST Site 17. Enhanced bioventing or other technologies may be necessary for achievement of cleanup levels at this site. This study, along with natural attenuation analysis, will be used to determine what cleanup levels must be achieved at the remaining 12 former UST sites. Removal of lead- and chromium- contaminated soil was completed at Sites S-3 and S-26. Further analysis of Sites S-30, S-36, and S-33/29 showed that Remedial Action (RA) per the ROD criteria is not required.

Installation of in situ soil vapor extraction (SVE) systems was completed, and the systems began operation at TCE/VOC (volatile organic compound) sites P-1A, P-1B, P-1C, P-1E and P-6A. Eleven TCE/VOC sites will not require RA per ROD criteria. Setup of the Sharpe 3-D groundwater model began. Information on new field boundary conditions was gathered to ensure that the scenarios modeled were

true to field conditions. A dense non aqueous-phase liquid (DNAPL) study was completed at Site P-6A. The DNAPL pools were not located, and an additional groundwater extraction well is recommended.

## Plan of Action

- Complete in situ vapor extraction remediation of TCE/VOC sites in FY99-FY00
- Complete the OU2 metals sites RA report in FY99
- Complete the OU2 No Further Action and institutional control sites RA Report in FY99
- Add an additional groundwater extraction well at Site P-6A per recommendation of DNAPLs study in FY99
- Complete setup of groundwater model in FY99
- Run different groundwater modeling scenarios leading to an Environmental Restoration Water Management Report (Plan) in FY99
- Continue to operate, maintain, and monitor the groundwater extraction and treatment system in FY99
- Complete OU2 TCE/VOC SVE sites RA report in FY00
- Complete OU1 interim groundwater RA report in FY00
- Complete installation wide preliminary closeout report by December 2000
- Complete five-year review in FY03

## FY99 FUNDING BY PHASE AND RELATIVE RISK

